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(h) Buoyancy of superstructure. For the purpose of paragraph (b) of this section, the buoyancy of any superstructure directly above the side damage is to be disregarded. The unflooded parts of superstructures beyond the extent of damage may be taken into consideration if they are separated from the damaged space by watertight bulkheads and no progressive flooding of these intact spaces takes place.

TABLE 172.065(a)—EXTENT OF DAMAGE

COLLISION PENETRATION	
Longitudinal extent	0.495L ^{2/3} or 47.6 feet ((¹ / ₃)L ^{2/3} or 14.5m) whichever is shorter.
Transverse extent 1	B/5 or 37.74 feet (11.5m) which is shorter.
Vertical extent	From the baseline upward with- out limit.
	T THE FORWARD END BUT EXCLUD- A POINT 0.3L AFT OF THE FORWARD
Longitudinal extent	0.495L ^{2/3} or 47.6 feet ((¹ / ₃)L ^{2/3} or 14.5m) whichever is shorter.
Transverse extent	B/6 or 32.81 feet (10m) which- ever is shorter but not less than 16.41 feet (5m).
Vertical extent from the baseline.	B/15 or 19.7 feet (6m) whichever is shorter.
	ON AT ANY OTHER LONGITUDINAL POSITION
Longitudinal extent	L/10 or 16.41 feet (5m) which- ever is shorter.
Transverse extent Vertical extent from the baseline.	16.41 feet (5m).
GROUNDING PENETRATION FOR RAKING DAMAGE	
For tank vessels of 20,000 DWT and above, the following as- sumed bottom raking damage must supple- ment the damage as-	

¹ Damage applied inboard from the vessel's side at right angles to the centerline at the level of the summer load line assigned under Subchapter E of this chapter.

Vertical extent Breach of the outer hull.

Longitudinal extent

Transverse extent

For vessels of 75,000 DWT and

forward perpendicular. For vessels of less than 75,000

forward perpendicular. B/3 anywhere in the bottom

above, 0.6L measured from the

DWT, 0.4L measured from the

TABLE TIZ:000(b) TETIMEABILITY		
Spaces and tanks	Permeability (percent)	
Storeroom spaces Accommodation spaces Voids Consumable liquid tanks Other liquid tanks	60. 95. 95. 95 or 0. ¹ 95 or 0. ²	

TABLE 172 065(b)—PERMEABILITY

[CGD 79–023, 48 FR 51040, Nov. 4, 1983, as amended by USCG–2000–7641, 66 FR 55574, Nov. 2, 2001]

§172.070 Intact stability.

All tank vessels of 5,000 DWT and above contracted after the effective date of this rulemaking must comply with the intact stability requirements of Regulation 25A, annex I of MARPOL 73/78

[USCG-2000-7641, 66 FR 55575, Nov. 2, 2001]

Subpart E—Special Rules Pertaining to a Barge That Carries a Hazardous Liquid Regulated Under Subchapter O of This Chapter

§172.080 Specific applicability.

This subpart applies to each tank barge that carries a cargo listed in Table 151.05 of this chapter.

[CGD 79–023, 48 FR 51040, Nov. 4, 1983, as amended by USCG–2009–0702, 74 FR 49239, Sept. 25, 2009]

§ 172.085 Hull type.

If a cargo listed in Table 151.05 of part 151 of this chapter is to be carried, the tank barge must be at least the hull type specified in Table 151.05 of this chapter for that cargo.

$\S 172.087$ Cargo loading assumptions.

- (a) The calculations required in this subpart must be done for cargo weights and densities up to and including the maximum that is to be endorsed on the Certificate of Inspection in accordance with §151.04–1(c) of this chapter.
- (b) For each condition of loading and operation, each cargo tank must be assumed to have its maximum free surface.

§172.090 Intact transverse stability.

- (a) Except as provided in paragraph (b) of this section, each tank barge must be shown by design calculations to have a righting arm curve with the following characteristics:
- (1) If the tank barge is in river service, the area under the righting arm curve must be at least 5 foot-degrees (1.52 meter-degrees) up to the smallest of the following angles:

¹ Whichever results in the more disabling condition.
² If tanks are partially filled, the permeability must be determined from the actual density and amount of liquid carried.